

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2005/015114

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. H01L21/268 (2006.01), H01L21/20 (2006.01), H01L21/336 (2006.01), H01L29/786 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. H01L21/268 (2006.01), H01L21/20 (2006.01), H01L21/336 (2006.01), H01L29/786 (2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996

Published unexamined utility model applications of Japan 1971-2005

Registered utility model specifications of Japan 1996-2005

Published registered utility model applications of Japan 1994-2005.

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0041158 A1 (Mikio Hongo, et.al.,) 2004.05.04, the whole document, figs. 1-35 & JP 2004-151668 A & CN 1480780 A & KR 2004019879 A	1, 14, 26
Y	US 2003/0216012 A1 (Nobuo Sasaki, et.al.,) 2003.11.20, the whole document, figs. 1-29 & JP 2003-332235 A & JP 2003-332236 A & JP 2003-332257 A & CN 1461045 A & KR 2003089490 A	3, 4, 16, 28
		3, 4, 16, 28

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"E" earlier application or patent but published on or after the international filing date

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"O" document referring to an oral disclosure, use, exhibition or other means

"&" document member of the same patent family

"P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search

Date of mailing of the international search report

08.11.2005

22.11.2005

Name and mailing address of the ISA/JP

Japan Patent Office

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The same or corresponding matters (A) between the inventions of claims Nos. 1-37 are "producing a first laser beam emitted from a laser oscillator into a second laser beam by passing through a slit; producing the second laser beam into a third laser beam by using a condensing lens; irradiating the semiconductor film with the third laser beam; and moving the third laser beam relative to the semiconductor film." However, it became apparent that the matters (A) were mentioned in a document US 2004/0041158 A1 (Mikio Hongo, et.al.,) 2004.05.04, the whole document, figs. 1-35. Therefore, the matters (A) makes no contribution over the prior art.

Consequently, there is no technical relationship between the inventions of claims Nos. [1, 3-13 referring to the claim 1, 14, 16-25 referring to the claim 14, 26, 28-37 referring to the claim 26] and [2, 3-13 referring to the claim 2, 15, 16-25 referring to the claim 15, 27, 28-37 referring to the claim 27].

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
 2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
- 1, 3, 4, 14, 16, 26, 28

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

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Continuation of III

The same or corresponding matters(B) between the inventions of claims Nos. [1, 3-13 referring to the claim 1, 14, 16-25 referring to the claim 14, 26, 28-37 referring to the claim 26] are "producing a first laser beam emitted from a laser oscillator into a second laser beam by passing through a slit; producing the second laser beam into a third laser beam by using a condensing lens; irradiating the semiconductor film with the third laser beam; and moving the third laser beam relative to the semiconductor film." However, it became apparent that the matters(B) were mentioned in a document US 2004/0041158 A1 (Mikio Hongo, et.al.,) 2004.05.04, the whole document, figs. 1-35. Therefore, the matters(B) makes no contribution over the prior art.

Consequently, Therefore, there is no technical relationship between the inventions of claims Nos. [1, 3, 4, 14, 16, 26, 28], [5, 6, 17, 18, 29, 30], [7, 8, 10, 19, 20, 31, 32], [9, 21, 22, 33, 34], [11, 23, 35], [12, 24, 36], [13, 25, 37].

The same or corresponding matters(C) between the inventions of claims Nos. [2, 3-13 referring to the claim 2, 15, 16-25 referring to the claim 15, 27, 28-37 referring to the claim 27] are "forming a semiconductor film over a substrate; combining a first laser beam emitted from a first laser oscillator whose polarizing direction has been changed by a waveplate with a second laser beam emitted from a second laser oscillator by a polarizer the combined laser beam serving as a third laser beam; producing a third laser beam into a fourth laser beam by passing through a slit; producing the fourth laser beam into a fifth laser beam by using a condensing lens; irradiating the semiconductor film with the fifth laser beam; and moving the fifth laser beam relative to the semiconductor film." However, after taking the prior art into consideration, it became apparent that the matters(C) were mentioned in a document US 2004/0041158 A1 (Mikio Hongo, et.al.,) 2004.05.04, the whole document, figs. 1-35 and US 2003/0216012 A1 (Nobuo Sasaki, et.al.,) 2003.11.20, the whole document, figs. 1-29. Therefore, the matters(C) makes no contribution over the prior art.

Consequently, there is no technical relationship between the inventions of claims Nos. [2-4, 14, 16, 26, 28], [5, 6, 17, 18, 29, 30], [7, 8, 10, 19, 20, 31, 32], [9, 21, 22, 33, 34], [11, 23, 35], [12, 24, 36], [13, 25, 37].